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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 May 2001 (20010501/PD)

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>>> the /IC5 and /IC fields include the corresponding catchword <<<
>>> terms from the IPC subject headings and subheadings. <<<
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=> s nucleic acid synthesis and array
      33011 NUCLEIC
      522516 ACID
      160693 SYNTHESIS
      809 NUCLEIC ACID SYNTHESIS
        (NUCLEIC(W)ACID(W)SYNTHESIS)
      231087 ARRAY
L1      174 NUCLEIC ACID SYNTHESIS AND ARRAY
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=> s 11 and 1960-1997/ed
      2232130 1960-1997/ED
        (6000000-9799999/ED)
L2      29 L1 AND 1960-1997/ED
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=> d 1-29 bib abs
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L2  ANSWER 1 OF 29  USPATFULL
AN   97:101639  USPATFULL
TI   Method of identifying sequence in a nucleic acid target using
      interactive sequencing by hybridization
IN   Skiena, Steven S., Port Jefferson, NY, United States
PA   Biota Corp., Locust Valley, NY, United States (U.S. corporation)
PI   US 5683881  19971104
AI   US 1995-546423  19951020 (8)
DT   Utility
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Shoemaker, Debra
CLMN  Number of Claims: 14
ECL   Exemplary Claim: 1
DRWN  5 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 887
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB   A new approach is proposed for sequencing by hybridization (SBH), which
      uses interaction to dramatically reduce the number of oligonucleotides
      used for de novo sequencing of large DNA fragments, while preserving
the  the
      parallelism which is the primary advantage of SBH. In particular, a
      series of rounds is performed, starting from an initial fixed
      oligonucleotide array, of hybridizing a target sample against
      an array, and then designing a new oligonucleotide
      array in response to the results of the rounds to date, until
      the sequence is determined.
```

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 2 OF 29 USPATFULL  
AN 97:101455 USPATFULL  
TI Use of RlPonucleases for treating parasitic and viral diseases  
IN Taraschi, Theodore, Medford, NJ, United States  
Nicolas, Emmanuelle, Philadelphia, PA, United States  
PA Thomas Jefferson University, Philadelphia, PA, United States (U.S.  
corporation)  
PI US 5683692 19971104  
AI US 1995-473770 19950606 (8)  
DT Utility  
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Saidha, Tekchand  
LREP Law Offices of Jane Massey Licata  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 445  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB A method of treating viral and protozoal infections using RlPonucleases  
is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 29 USPATFULL  
AN 97:96747 USPATFULL  
TI Methods for producing polypeptide metal binding sites and compositions  
thereof  
IN Barbas, Carlos F., San Diego, CA, United States  
Rosenblum, Jonathan, San Diego, CA, United States  
Lerner, Richard A., La Jolla, CA, United States  
PA The Scripps Research Institute, La Jolla, CA, United States (U.S.  
corporation).  
PI US 5679548 19971021  
AI US 1993-77797 19930614 (8)  
RLI Continuation of Ser. No. US 1993-12566, filed on 2 Feb 1993, now  
abandoned  
DT Utility  
EXNAM Primary Examiner: Feisee, Lila; Assistant Examiner: Lucas, John  
LREP Fitting, Thomas; Holmes, Emily  
CLMN Number of Claims: 18  
ECL Exemplary Claim: 1,9  
DRWN 5 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 3121  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The present invention describes methods for producing metal binding  
sites on polypeptides, and particularly for producing metal binding  
sites within the CDR regions of immunoglobulin heavy or light chains  
that are displayed on the surface of filamentous phage particles. The  
invention also describes oligonucleotides useful for preparing the  
metal binding sites, and human monoclonal antibodies produced by the present  
methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 29 USPATFULL  
AN 97:84090 USPATFULL  
TI Synthesis of single-stranded labelled oligonucleotides of preselected  
sequence  
IN Ruth, Jerry L., San Diego, CA, United States

PA Syngene, Inc., San Diego, CA, United States (U.S. corporation)  
PI US 5668266 19970916  
AI US 1995-439860 19950512 (8)  
RLI Continuation of Ser. No. US 1994-288337, filed on 10 Aug 1994, now abandoned which is a division of Ser. No. US 1990-505032, filed on 27 Apr 1990, now abandoned which is a continuation of Ser. No. US 1987-46133, filed on 4 May 1987, now patented, Pat. No. US 4948882

which

is a continuation-in-part of Ser. No. US 1984-617094, filed on 22 Feb 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-468498, filed on 22 Feb 1983, now abandoned

DT Utility

EXNAM Primary Examiner: LeGuyader, John L.; Assistant Examiner: Larson, Thomas

G.

LREP Fish & Richardson P.C.

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1861

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Substantially pure single-stranded oligonucleotides having a preselected

sequence of not more than about 200 nucleotides, at least one of which is at a preselected position in the sequence and includes a base with a covalently attached linker arm containing or capable of binding at

least

one reporter group or solid support. A process for the chemical synthesis of the substantially pure single-stranded oligonucleotide and modified nucleosides useful in such synthesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 29 USPATFULL

AN 97:73438 USPATFULL

TI Heterodimeric receptor libraries using phagemids

IN Barbas, Carlos, La Jolla, CA, United States

Kang, Angray, Carlsbad, CA, United States

Lerner, Richard A., La Jolla, CA, United States

PA The Scripps Research Institute, La Jolla, CA, United States (U.S. corporation)

PI US 5658727 19970819

WO 9218619 19921029

AI US 1994-133011 19940608 (8)

WO 1992-US3091 19920410

19940608 PCT 371 date

19940608 PCT 102(e) date

DT Utility

EXNAM Primary Examiner: Ketter, James S.

LREP Fitting, Thomas

CLMN Number of Claims: 36

ECL Exemplary Claim: 1

DRWN 19 Drawing Figure(s); 14 Drawing Page(s)

LN.CNT 5935

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Filamentous phage comprising a matrix of cpVIII proteins encapsulating a

genome encoding first and second polypeptides of an antigenously assembling receptor, such as an antibody, and a receptor comprised of

the first and second polypeptides surface-integrated into the matrix  
via  
a filamentous phage coat protein membrane anchor domain fused to at  
least one of the polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 6 OF 29 USPATFULL  
AN 97:71164 USPATFULL  
TI Nucleic acid-amplified immunoassay probes  
IN Urdea, Michael S., Alamo, CA, United States  
PA Chiron Corporation, Emeryville, CA, United States (U.S. corporation)  
PI US 5656731 19970812  
AI US 1993-85681 19930701 (8)  
RLI Continuation of Ser. No. US 1990-519212, filed on 4 May 1990, now  
abandoned which is a continuation-in-part of Ser. No. US 1990-463022,  
filed on 10 Jan 1990, now abandoned And a continuation-in-part of Ser.  
No. US 1989-340031, filed on 18 Apr 1989, now patented, Pat. No. US  
5124246, issued on 23 Jun 1992 which is a continuation-in-part of Ser.  
No. US 1988-252638, filed on 30 Sep 1988, now abandoned which is a  
continuation-in-part of Ser. No. US 1988-185201, filed on 22 Apr 1988,  
now abandoned which is a continuation-in-part of Ser. No. US  
1987-109282, filed on 15 Oct 1987, now abandoned  
DT Utility  
EXNAM Primary Examiner: Elliott, George C.; Assistant Examiner: Marschel,  
Ardin H.  
LREP Dylan, Ph.D., Tyler; Goldman, Kenneth M.; Blackburn, Robert P.  
CLMN Number of Claims: 31  
ECL Exemplary Claim: 1  
DRWN 12 Drawing Figure(s); 7 Drawing Page(s)  
LN.CNT 1230

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In one aspect of this invention, various protein/nucleic acid hybrid  
probes are described which can be used to amplify the detectable signal  
in immunoassays. The protein moiety is capable of functioning either as  
an antibody or an antigen. The nucleic acid moiety serves as a signal  
amplifier. In another aspect, various methods of amplifying the  
detectable signal in immunoassays by use of the hybrid probes and  
related polynucleotide probes are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 29 USPATFULL  
AN 97:66160 USPATFULL  
TI Therapeutic-wound healing compositions and methods for preparing and  
using same  
IN Martin, Alain, 31 Country Club Dr., Ringoes, NJ, United States 08551  
PI US 5652274 19970729  
AI US 1995-445813 19950522 (8)  
RLI Continuation-in-part of Ser. No. US 1994-187435, filed on 27 Jan 1994,  
now abandoned which is a continuation of Ser. No. US 1991-798392, filed  
on 26 Nov 1991, now abandoned which is a continuation-in-part of Ser.  
No. US 1991-663500, filed on 1 Mar 1991, now abandoned  
DT Utility  
EXNAM Primary Examiner: Criares, Theodore J.  
LREP Barish, Jean B.  
CLMN Number of Claims: 16  
ECL Exemplary Claim: 1  
DRWN 90 Drawing Figure(s); 77 Drawing Page(s)

LN.CNT 9592

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention pertains to therapeutic wound healing compositions for protecting and resuscitating mammalian cells. In one embodiment, the therapeutic wound healing composition comprises (a) pyruvate, (b) an antioxidant, and (c) a mixture of saturated and unsaturated fatty acids.

In another embodiment, the therapeutic wound healing composition comprises (a) pyruvate, (b) lactate, and (c) a mixture of saturated and unsaturated fatty acids. In yet another embodiment, the therapeutic wound healing composition comprises (a) an antioxidant and (b) a mixture

of saturated and unsaturated fatty acids. In still yet another embodiment, the therapeutic wound healing composition comprises (a) lactate, (b) an antioxidant, and (c) a mixture of saturated and unsaturated fatty acids. This invention also pertains to wound healing compositions combined with a medicament which is useful for treating injured mammalian cells to form augmented wound healing compositions such as immunostimulating-wound healing compositions, antiviral-wound healing compositions, antikeratolytic-wound healing compositions, anti-inflammatory-wound healing compositions, antifungal-wound healing compositions, acne treating-wound healing compositions, sunscreen-wound healing compositions, dermatological-wound healing compositions, antihistamine-wound healing compositions, antibacterial-wound healing compositions, and bioadhesive-wound healing compositions. This invention

also pertains to wound healing compositions combined with a cytotoxic agent to form cytoprotective-wound healing compositions useful for protecting and reducing injury to mammalian cells and to razor cartridges comprising the wound healing compositions. This invention also pertains to methods for preparing and using the wound healing compositions and the topical and ingestible pharmaceutical products in which the therapeutic compositions may be used.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 29 USPATFULL

AN 97:49510 USPATFULL

TI Apparatus and method for the detection and assay of organic molecules

IN Frankel, Robert, Rochester, NY, United States

Forsyth, James M., Macedon, NY, United States

PA Sios, Inc., Macedon, NY, United States (U.S. corporation)

PI US 5637458 19970610

AI US 1994-278033 19940720 (8)

DT Utility

EXNAM Primary Examiner: Hutzell, Paula K.; Assistant Examiner: Freed, Rachel Heather

LREP Harris Beach & Wilcox, LLP

CLMN Number of Claims: 32

ECL Exemplary Claim: 1

DRWN 18 Drawing Figure(s); 14 Drawing Page(s)

LN.CNT 1480

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A system for biomolecular separation and detection of a molecular species includes a solid state laser detector having a sample channel therein. The presence of a molecular species is indicated by a frequency

shift in the laser's output, which is detected by optical heterodyning the laser's output with the output of a reference laser. The interior of

the sample channel is optionally coated with a ligand for binding the molecular species of interest. The system involves preprocessing a sample by electroosmotic separation in channels that are lithographically formed in a two-dimensional planar substrate.

Molecular

separation is also accomplished in a nanostructural molecular sieve comprising spaced apart posts defining narrow channels therebetween.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 29 USPATFULL  
AN 97:27285 USPATFULL  
TI Processes for synthesizing nucleotides and modified nucleotides using N.sub.  
IN Reddy, M. Parameswara, Brea, CA, United States  
Farooqui, Firdous, La Habra, CA, United States  
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)  
PI US 5616700 19970401  
AI US 1993-154370 19931118 (8)  
RLI Continuation-in-part of Ser. No. US 1992-873330, filed on 24 Apr 1992, now patented, Pat. No. US 5428148, issued on 27 Jun 1995  
DT Utility  
EXNAM Primary Examiner: Marschel, Ardin H.  
LREP May, William H.; Henry, Janis C.  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN 24 Drawing Figure(s); 22 Drawing Page(s)  
LN.CNT 1171

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are protecting groups for exocyclic amino groups of the  
base cytosine for use in the synthesis of oligonucleotides and oligonucleoside phosphorothioates, the protecting groups being represented by the formula: --CO--(CH.sub.2).sub.0-9 --CH.sub.3. In a particularly preferred embodiment, the base cytosine is protected with acetyl (--CO--CH.sub.3), and the oligonucleotide or oligonucleoside phosphorothioate incorporating the protected cytosine is subjected to a cleavage/deprotection reagent comprising methylamine and ammonia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 29 USPATFULL  
AN 97:10138 USPATFULL  
TI Oligonucleotide families useful for producing primers  
IN Sorge, Joseph A., Rancho Santa Fe, CA, United States  
Shoemaker, Dan, Del Mar, CA, United States  
Weiner, Michael, San Diego, CA, United States  
PA Stratagene, La Jolla, CA, United States (U.S. corporation)  
PI US 5599921 19970204  
AI US 1991-697936 19910508 (7)  
DT Utility  
EXNAM Primary Examiner: Kunz, Gary L.  
LREP Halluin, Esq., Albert P. Pennie & Edmunds  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 1776

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition comprising a family of oligonucleotides all of the same length, said family defined by a nucleotide sequence formula containing six to eight nucleotide positions, one to three of said positions of the formula identifying positions of nucleotide variation among the family members, the remaining nucleotide positions each identifying a nucleotide that is the same in all members of the family.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 11 OF 29 USPATFULL  
AN 96:114005 USPATFULL  
TI Surface activated organic polymers useful for location - specific attachment of nucleic acids, peptides, proteins and oligosaccharides  
IN Coassin, Peter J., San Juan Capistrano, CA, United States  
Matson, Robert, Orange, CA, United States  
Rampal, Jang, Yorba Linda, CA, United States  
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)  
PI US 5583211 19961210  
AI US 1994-343267 19941122 (8)  
RLI Continuation of Ser. No. US 1992-971100, filed on 29 Oct 1992, now abandoned  
DT Utility  
EXNAM Primary Examiner: Kight, John; Assistant Examiner: Crane, L. Eric  
LREP May, William H.; Henry, Janis C.  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1,6  
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 1766

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are surface activated, organic polymers useful for biopolymer synthesis. Most preferably, aminated polypropylene is used for the synthesis of oligonucleotides thereto, and these devices are most preferably utilized for genetic analysis of patient samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 12 OF 29 USPATFULL  
AN 96:103870 USPATFULL  
TI Encoded combinatorial chemical libraries  
IN Lerner, Richard, La Jolla, CA, United States  
Janda, Kim, San Diego, CA, United States  
Brenner, Sydney, Cambridge, England  
PA The Scripps Research Institute, La Jolla, CA, United States (U.S. corporation)  
PI US 5573905 19961112  
AI US 1992-860445 19920330 (7)  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Campbell, Eggerton  
LREP Lewis, Donald C.  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 1894

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention describes an encoded combinatorial chemical library comprised of a plurality of bifunctional molecules having both  
a



chemical polymer and an identifier oligonucleotide sequence that defines the structure of the chemical polymer. Also described are the bifunctional molecules of the library, and methods of using the library to identify chemical structures within the library that bind to biologically active molecules in preselected binding interactions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 13 OF 29 USPATFULL  
AN 96:82717 USPATFULL  
TI Antineoplastic cocoa extracts and methods for making and using the same  
IN Romanczyk, Jr., Leo J., Hackettstown, NJ, United States  
Hammerstone, Jr., John F., Nazareth, PA, United States  
Buck, Margaret M., Morristown, NJ, United States  
PA Mars, Incorporated, McLean, VA, United States (U.S. corporation)  
PI US 5554645 19960910  
AI US 1994-317226 19941003 (8)  
DT Utility  
EXNAM Primary Examiner: Nutter, Nathan M.  
LREP Curtis, Morris & Safford, P.C.  
CLMN Number of Claims: 14  
ECL Exemplary Claim: 1  
DRWN 96 Drawing Figure(s); 91 Drawing Page(s)  
LN.CNT 1683

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed and claimed are cocoa extracts such as polyphenols or procyanidins, methods for preparing such extracts, as well as uses for them, especially as antineoplastic agents and antioxidants. Disclosed and claimed are antineoplastic compositions containing cocoa polyphenols or procyanidins and methods for treating patients employing the compositions. Additionally disclosed and claimed is a kit for treating a patient in need of treatment with an antineoplastic agent containing cocoa polyphenols or procyanidins as well as a lyophilized antineoplastic composition containing cocoa polyphenols or procyanidins. Further, disclosed and claimed is the use of the invention in antioxidant, preservative and topoisomerase-inhibiting compositions and methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 14 OF 29 USPATFULL  
AN 96:82576 USPATFULL  
TI Biopolymer synthesis using surface activated biaxially oriented polypropylene  
IN Coassin, Peter J., San Juan Capistrano, CA, United States  
Matson, Robert S., Orange, CA, United States  
Rampal, Jang B., Yorba Linda, CA, United States  
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)  
PI US 5554501 19960910  
AI US 1993-145939 19931029 (8)  
RLI Continuation-in-part of Ser. No. US 1992-971100, filed on 29 Oct 1992, now abandoned  
DT Utility  
EXNAM Primary Examiner: Horlick, Kenneth R.

LREP May, William H.; Henry, Janis C.  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 1920

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are surface activated, organic polymers useful for biopolymer synthesis. Most preferably, aminated biaxially oriented polypropylene is used for the synthesis of oligonucleotides thereto, and these devices are most preferably utilized for genetic analysis of patient samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 15 OF 29 USPATFULL

AN 96:68131 USPATFULL

TI Single-stranded labelled oligonucleotides of preselected sequence

IN Ruth, Jerry L., San Diego, CA, United States

PA Molecular Biosystems, Inc., San Diego, CA, United States (U.S. corporation)

PI US 5541313 19960730

AI US 1994-336500 19941109 (8)

RLI Continuation of Ser. No. US 1990-505032, filed on 27 Apr 1990, now abandoned which is a continuation of Ser. No. US 1987-46133, filed on 4 May 1987, now patented, Pat. No. US 4948882 which is a continuation-in-part of Ser. No. US 1984-617094, filed on 22 Feb 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-468498, filed on 22 Feb 1983, now abandoned

DT Utility

EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Crane, L. Eric

LREP Fish & Richardson P.C.

CLMN Number of Claims: 32

ECL Exemplary Claim: 1,12,23,28

DRWN No Drawings

LN.CNT 1928

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Substantially pure single-stranded oligonucleotides having a preselected sequence of not more than about 200 nucleotides, at least one of which is at a preselected position in the sequence and includes a base with a covalently attached linker arm containing or capable of binding at least one reporter group or solid support. A process for the chemical synthesis of the substantially pure single-stranded oligonucleotide and modified nucleosides useful in such synthesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 16 OF 29 USPATFULL

AN 96:43308 USPATFULL

TI Methods and reagents for cleaving and deprotecting oligonucleotides

IN Reddy, Parameswara M., Brea, CA, United States

Hanna, Naeem B., Fullerton, CA, United States

PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)

PI US 5518651 19960521

AI US 1994-257964 19940608 (8)

RLI Division of Ser. No. US 1992-873915, filed on 24 Apr 1992, now patented,

Pat. No. US 5348868  
DT Utility  
EXNAM Primary Examiner: Lilling, Herbert J.  
LREP May, William H.; Henry, Janis C.; Grant, Arnold  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 7 Drawing Page(s)  
LN.CNT 1022

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are reagents of methods for cleaving and deprotecting insolubilized and protected synthetic oligonucleotides. In a particularly preferred embodiment, the reagent comprises methylamine and t-butylamine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 17 OF 29 USPATFULL  
AN 96:38777 USPATFULL  
TI Compositions for the detection of Chlamydia trachomatis  
IN Yang, Yeasing, San Diego, CA, United States  
Stull, Paul D., San Diego, CA, United States  
Spingola, Marc, Albuquerque, NM, United States  
PA Gen-Probe Incorporated, San Diego, CA, United States (U.S. corporation)  
PI US 5514551 19960507  
AI US 1994-323257 19941014 (8)  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Rees, Dianne  
LREP Fisher, Carlos A.  
CLMN Number of Claims: 29  
ECL Exemplary Claim: 20  
DRWN No Drawings  
LN.CNT 2372

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Oligonucleotides and methods for the amplification and specific detection of Chlamydia trachomatis. The invention relates to amplification oligonucleotides capable of amplifying Chlamydia trachomatis nucleotide sequences and to probes and helper oligonucleotides for the specific detection of Chlamydia trachomatis nucleic acids. The invention also relates to methods for using the oligonucleotides of the present invention and specific combinations and kits useful for the detection of Chlamydia trachomatis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 18 OF 29 USPATFULL  
AN 96:36446 USPATFULL  
TI Methods for the detection of Chlamydia trachomatis  
IN Yang, Yeasing, San Diego, CA, United States  
Stull, Paul D., San Diego, CA, United States  
Spingola, Marc, Albuquerque, NM, United States  
PA Gen-Probe Incorporated, San Diego, CA, United States (U.S. corporation)  
PI US 5512445 19960430  
AI US 1995-450186 19950525 (8)  
RLI Division of Ser. No. US 1994-323257, filed on 14 Oct 1994  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Rees, Dianne

LREP Fisher, Carlos A.  
CLMN Number of Claims: 54  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 2575

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Oligonucleotides and methods for the amplification and specific detection of Chlamydia trachomatis. The invention relates to amplification oligonucleotides capable of amplifying Chlamydia trachomatis nucleotide sequences and to probes and helper oligonucleotides for the specific detection of Chlamydia trachomatis nucleic acids. The invention also relates to methods for using the oligonucleotides of the present invention and specific combinations and kits useful for the detection of Chlamydia trachomatis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 19 OF 29 USPATFULL  
AN 96:11222 USPATFULL  
TI Photolabile nucleoside and peptide protecting groups  
IN Fodor, Stephen P. A., Palo Alto, CA, United States  
Stryer, Lubert, Stanford, CA, United States  
Winkler, James L., Palo Alto, CA, United States  
Holmes, Christopher P., Sunnyvale, CA, United States  
Solas, Dennis W., San Francisco, CA, United States  
PA Affymax Technologies N.V., Curacao, Netherlands (non-U.S. corporation)  
PI US 5489678 19960206  
AI US 1995-390272 19950216 (8)  
RLI Continuation of Ser. No. US 1990-624120, filed on 6 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-492462, filed on 7 Mar 1990, now patented, Pat. No. US 5143854 which is a continuation-in-part of Ser. No. US 1989-362901, filed on 7 Jun 1989, now abandoned  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Schreiber, David  
LREP Townsend and Townsend and Crew  
CLMN Number of Claims: 35  
ECL Exemplary Claim: 1  
DRWN 22 Drawing Figure(s); 17 Drawing Page(s)  
LN.CNT 1796

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A synthetic strategy for the creation of large scale chemical diversity.  
Solid-phase chemistry, photolabile protecting groups, and photolithography are used to achieve light-directed spatially-addressable parallel chemical synthesis. Binary masking techniques are utilized in one embodiment. A reactor system, photoremovable protective groups, and improved data collection and handling techniques are also disclosed. A technique for screening linker molecules is also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 20 OF 29 USPATFULL  
AN 96:9361 USPATFULL  
TI Arbitrarily primed polymerase chain reaction method for fingerprinting genomes  
IN McClelland, Michael, Del Mar, CA, United States  
Welsh, John T., Leucadia, CA, United States  
Sorge, Joseph A., Rancho Santa Fe, CA, United States

PA Stratagene, La Jolla, CA, United States (U.S. corporation)  
PI US 5487985 19960130  
AI US 1992-959119 19921009 (7)  
RLI Continuation-in-part of Ser. No. US 1990-633095, filed on 21 Dec 1990  
which is a continuation-in-part of Ser. No. US 1990-598913, filed on 15  
Oct 1990, now abandoned  
DT Utility  
EXNAM Primary Examiner: Pahr, Margaret; Assistant Examiner: Marschel, Ardin  
H.  
LREP Pennie & Edmonds; Halluin, Albert P.; Bortner, Scott R.  
CLMN Number of Claims: 14  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 2019

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A rapid method for generating a set of discrete DNA amplification  
products characteristic of a genome as a "fingerprint" comprises the  
steps of: priming target nucleic acid of a genome or from a cellular

RNA  
preparation with an single-stranded primer to form primed nucleic acid  
such that a substantial degree of internal-mismatching occurs between  
the primer end the target nucleic acid; amplifying the primed nucleic  
acid by performing at least one cycle of polymerase chain reaction  
amplification; and amplifying the product of step (2) by performing at  
least about 10 cycles of polymerase chain reaction amplification. The  
method is known as the arbitrarily primed polymerase chain reaction  
(AP-PCR) method and is suitable for the identification of bacterial  
species and strains, including Staphylococcus and Streptococcus

species,  
mammals and plants. The method of the present invention can identify  
species, cell types or tissues rapidly, using only a small amount of  
biological material, and does not require knowledge of the nucleotide  
sequence or other molecular biology of the nucleic acids of the  
organisms to be identified. The method can also be used to generate  
detectable polymorphisms for use in genetic mapping of animals and  
humans, and be used to detect differential gene expression within  
tissues

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 21 OF 29 USPATFULL  
AN 95:103613 USPATFULL  
TI Construction of geometrical objects from polynucleotides  
IN Seeman, Nadrian C., New York, NY, United States  
Zhang, Yuwen, Queens, NY, United States  
PA New York University, New York, NY, United States (U.S. corporation)  
PI US 5468851 19951121  
AI US 1993-114301 19930902 (8)  
RLI Division of Ser. No. US 1991-805564, filed on 12 Dec 1991, now  
patented,  
Pat. No. US 5278051  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Horlick, Kenneth  
R.  
LREP Browdy and Neimark  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 19 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 1410

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB One, two and three dimensional structures may be synthesized or modified from polynucleotides. A core structure is expanded by cleavage of a loop with a restriction endonuclease and ligating another polynucleotide to the sticky ends so that the recognition site of the restriction enzyme is not reformed. This process is repeated as many times as necessary to synthesize any desired structure. The structures formed have a wide range of uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 22 OF 29 USPATFULL  
AN 95:69203 USPATFULL  
TI Consensus sequence primed polymerase chain reaction method for fingerprinting genomes  
IN McClelland, Michael, Del Mar, CA, United States  
Welsh, John T., Leucadia, CA, United States  
PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)  
PI US 5437975 19950801  
AI US 1991-661591 19910225 (7)  
DT Utility  
EXNAM Primary Examiner: Parr, Margaret; Assistant Examiner: Horlick, Kenneth R.  
LREP Pennie & Edmonds  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 5 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 1710

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A rapid method for generating a set of discrete DNA amplification products characteristic of a genome as a "fingerprint" for typing the genome comprises the steps of: forming a polymerase chain reaction (PCR) admixture by combining, in a PCR buffer, genomic DNA and at least one structural RNA consensus primer, and subjecting the PCR admixture to a plurality of PCR thermocycles to produce a plurality of DNA segments, thereby forming a set of discrete DNA amplification products. The method is known as the consensus sequence primed polymerase chain reaction (CP-PCR) method and is suitable for the identification of bacterial species and strains, including Staphylococcus and Streptococcus mammals and plants. The method of the present invention can identify species rapidly, using only a small amount of biological material, and does not require knowledge of the nucleotide sequence or other molecular biology of the nucleic acids of the organisms to be identified. Only one primer sequence is required for amplification and/or identification. The method can also be used to generate detectable polymorphisms for use in genetic mapping of animals and humans.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 23 OF 29 USPATFULL  
AN 95:58250 USPATFULL  
TI N.sup.4 - acylated cytidinyl compounds useful in oligonucleotide synthesis  
IN Reddy, Parameswara M., Brea, CA, United States  
Hanna, Naeem B., Fullerton, CA, United States  
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)  
PI US 5428148 19950627  
AI US 1992-873330 19920424 (7)  
DT Utility  
EXNAM Primary Examiner: Rollins, John W.; Assistant Examiner: Crane, L. Eric  
LREP May, William H.; Harder, P. R.; Henry, Janis C.  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1,5  
DRWN 8 Drawing Figure(s); 7 Drawing Page(s)  
LN.CNT 859

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are protecting groups for exocyclic amino groups of the  
bases adenine, guanine and cytosine for use in the synthesis of oligonucleotides, the protecting groups being represented by the formula: --CO-- (CH.sub.2).sub.0-9 --CH.sub.3. In a particularly preferred embodiment, the base cytosine is protected with acetyl (--CO--CH.sub.3), and the oligonucleotide incorporating said protected cytosine is subjected to a cleavage/deprotection reagent comprising at least one straight chain alkylamine having from 1 to about 10 carbon atoms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 24 OF 29 USPATFULL  
AN 95:54452 USPATFULL  
TI DNA encoding cytokine-induced protein, TSG-14  
IN Lee, Tae H., Cambridge, MA, United States  
Lee, Gene W., New York, NY, United States  
Vilcek, Jan, New York, NY, United States  
PA New York University, New York, NY, United States (U.S. corporation)  
PI US 5426181 19950620  
AI US 1992-929580 19920814 (7)  
RLI Continuation of Ser. No. US 1991-640492, filed on 14 Jan 1991, now abandoned  
DT Utility  
EXNAM Primary Examiner: Draper, Garnette D.; Assistant Examiner: Kemmerer, Elizabeth C.  
LREP Browdy and Neimark  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 36 Drawing Figure(s); 19 Drawing Page(s)  
LN.CNT 3175

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pleiotropic pro-inflammatory cytokines, such as TNF and IL-1, induce expression of a polypeptide molecule, termed TSG-14, in connective tissue cells. The TSG-14 polypeptide and functional derivatives thereof,  
DNA coding therefor, expression vehicles, such as a plasmids, and host cells transformed or transfected with the DNA molecule, and methods for producing the polypeptide and the DNA are provided. Antibodies specific for the TSG-14 polypeptide are disclosed, as is a method for detecting

the presence of TSG-14 polypeptide in a biological sample, using the antibody or another molecule capable of binding to TSG-14 such as hyaluronic acid. A method for detecting the presence of nucleic acid encoding a normal or mutant TSG-14 polypeptide, a method for measuring induction of expression of TSG-14 in a cell using either nucleic acid hybridization or immunoassay, a method for identifying a compound capable of inducing the expression of TSG-14 in a cell, and a method for measuring the ability of a cell to respond to TNF are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 25 OF 29 USPATFULL  
AN 95:52233 USPATFULL  
TI Very large scale immobilized polymer synthesis  
IN Fodor, Stephen P. A., Palo Alto, CA, United States  
Stryer, Lubert, Stanford, CA, United States  
Pirrung, Michael C., Durham, NC, United States  
Read, J. Leighton, Palo Alto, CA, United States  
PA Affymax Technologies N.V., Netherlands Antilles (non-U.S. corporation)  
PI US 5424186 19950613  
AI US 1991-805727 19911206 (7)  
RLI Continuation-in-part of Ser. No. US 1990-492462, filed on 7 Mar 1990,  
now patented, Pat. No. US 5143854 And a continuation-in-part of Ser.  
No. US 1990-624120, filed on 6 Dec 1990 which is a continuation-in-part of  
Ser. No. US -49246 And Ser. No. US 1989-362901, filed on 7 Jun 1989,  
now abandoned, said Ser. No. US -492462 which is a  
continuation-in-part of Ser. No. US -362901  
DT Utility  
EXNAM Primary Examiner: Kepplinger, Esther M.; Assistant Examiner: Green,  
Lora  
M.  
LREP Kaster, Kevin R.; Norviel, Vern  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN 60 Drawing Figure(s); 42 Drawing Page(s)  
LN.CNT 4134

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for synthesizing oligonucleotides on a solid substrate. The method provides for the irradiation of a first predefined region of the substrate without irradiation of a first predefined region of the substrate. The irradiation of a second predefined region of the substrate. The irradiation step removes a protecting group therefrom. The substrate is contacted with a first nucleotide to couple the nucleotide to the substrate in the first predefined region. By repeating these steps, an **array** of diverse oligonucleotides is formed on the substrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 26 OF 29 USPATFULL  
AN 95:9803 USPATFULL  
TI Tumor necrosis factor-induced protein TSG-6  
IN Lee, Tae H., Piscataway, NJ, United States  
Wisniewski, Hans-Georg, Spring Valley, NY, United States  
Vilcek, Jan, New York, NY, United States  
PA New York University, New York, NY, United States (U.S. corporation)



PI US 5386013 19950131  
AI US 1993-24868 19930301 (8)  
RLI Continuation of Ser. No. US 1991-642312, filed on 14 Jan 1991, now abandoned  
DT Utility  
EXNAM Primary Examiner: Draper, Garnette D.; Assistant Examiner: Kemmerer, Elizabeth C.  
LREP Browdy and Neimark  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 50 Drawing Figure(s); 20 Drawing Page(s)  
LN.CNT 2952

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pleiotropic pro-inflammatory cytokines, such as TNF and IL-1, induce expression of a protein molecule, termed TSG-6, in connective tissue cells. The TSG-6 protein and functional derivatives thereof, DNA coding therefor, expression vehicles, such as a plasmids, and host cells transformed or transfected with the DNA molecule, and methods for producing the protein and the DNA are provided. Antibodies specific for the TSG-6 protein are disclosed, as is a method for detecting the presence of TSG-6 protein in a biological sample, using the antibody or another molecule capable of binding to TSG-6 such as hyaluronic acid. A method for detecting the presence of nucleic acid encoding a normal or mutant TSG-6 protein, a method for measuring induction of expression of TSG-6 in a cell using either nucleic acid hybridization or immunoassay, a method for identifying a compound capable of inducing the expression of TSG-6 in a cell, and a method for measuring the ability of a cell to respond to TNF are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 27 OF 29 USPATFULL  
AN 94:82163 USPATFULL  
TI Methods and reagents for cleaving and deprotecting oligonucleotides  
IN Reddy, Parameswara M., Brea, CA, United States  
Hanna, Naeem B., Fullerton, CA, United States  
PA Beckman Instruments, Inc., Fullerton, CA, United States (U.S. corporation)  
PI US 5348868 19940920  
AI US 1992-873915 19920424 (7)  
DT Utility  
EXNAM Primary Examiner: Lilling, Herbert J.  
LREP May, William H.; Harder, Paul R.; Henry, Janis C.  
CLMN Number of Claims: 14  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 7 Drawing Page(s)  
LN.CNT 1031

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are reagents of methods for cleaving and deprotecting insolubilized and protected synthetic oligonucleotides. In a particularly preferred embodiment, the reagent comprises methylamine and t-butylamine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 28 OF 29 USPATFULL  
AN 94:3675 USPATFULL  
TI Construction of geometrical objects from polynucleotides

IN Seeman, Nadrian C., New York, NY, United States  
Zhang, Yuwen, Queens, NY, United States  
PA New York University, New York, NY, United States (U.S. corporation)  
PI US 5278051 19940111  
AI US 1991-805564 19911212 (7)  
DT Utility  
EXNAM Primary Examiner: Schwartz, Richard A.; Assistant Examiner: Guzo, David  
LREP Browdy and Neimark  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN 17 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 1388

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB One, two and three dimensional structures may be synthesized or modified from polynucleotides. A core structure is expanded by cleavage of a loop with a restriction endonuclease and ligating another polynucleotide to the sticky ends so that the recognition site of the restriction enzyme is not reformed. This process is repeated as many times as necessary to synthesize any desired structure. The structures formed have a wide range of uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 29 OF 29 USPATFULL  
AN 90:63605 USPATFULL  
TI Single-stranded labelled oligonucleotides, reactive monomers and methods of synthesis  
IN Ruth, Jerry L., San Diego, CA, United States  
PA Syngene, Inc., San Diego, CA, United States (U.S. corporation)  
PI US 4948882 19900814  
AI US 1987-46133 19870504 (7)  
RLI Continuation-in-part of Ser. No. US 1984-617094, filed on 22 Feb 1984, now abandoned which is a continuation-in-part of Ser. No. US 1983-468498, filed on 22 Feb 1983, now abandoned  
DT Utility  
EXNAM Primary Examiner: Rollins, John W.; Assistant Examiner: Crane, L. Eric  
LREP Pretty, Schroeder Brueggemann & Clark  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1648

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Substantially pure single-stranded oligonucleotides having a preselected sequence of not more than about 200 nucleotides, at least one of which is at a preselected position in the sequence and includes a base with a covalently attached linker arm containing or capable of binding at least one reporter group or solid support. A process for the chemical synthesis of the substantially pure single-stranded oligonucleotide and modified nucleosides useful in such synthesis are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.